

In the Abstract

Please amend the ABSTRACT OF THE DISCLOSURE of this application as follows:

1 -- ABSTRACT
2 ~~This invention cures many inefficiencies with known scan conversion~~
3 ~~methods. This invention employs a edge array rather than a set~~
4 ~~linked list from an array of pointers equal in number to the number~~
5 ~~of scan lines. This invention thus eliminates storage of linked~~
6 ~~list pointers which in the prior art included many null pointers~~
7 ~~resulting in better memory utilization. es on chip memory when~~
8 ~~employing a single chip microprocessor. This invention sorts the~~
9 ~~active edge table only at edge intersections and vertiees, thus~~
10 ~~eliminating much unneeded sorting. This invention permits~~
11 ~~integrated clipping of a subject polygon by a clip polygon and~~
12 ~~forming trapezoids filling the clipped area by activating trapezoid~~
13 ~~formation at every vertex of either polygon and at every edge~~
14 ~~intersection. This process saves code space and computer~~
15 ~~processing time. This invention~~ A computer implemented method of
16 rasterizing a page in a page description language efficiently
17 utilizes the resources of a multiprocessor integrated circuit by
18 spawning of subtasks from a RISC type processor to one or more DSP
19 type processors. The RISC type processor interprets the page in
20 the page description language, such as sorting polygon edges in
21 increasing minimum Y coordinate using a floating point calculation
22 unit. The DSP type processors detect a Y coordinate of edge
23 intersection via successive midpoint approximation using a integer
24 multiplier unit.--